
King County Communications Infrastructure

Strategic Advisory Council Briefing

April 04, 2007

Presented by:
Office of Information Resource Management

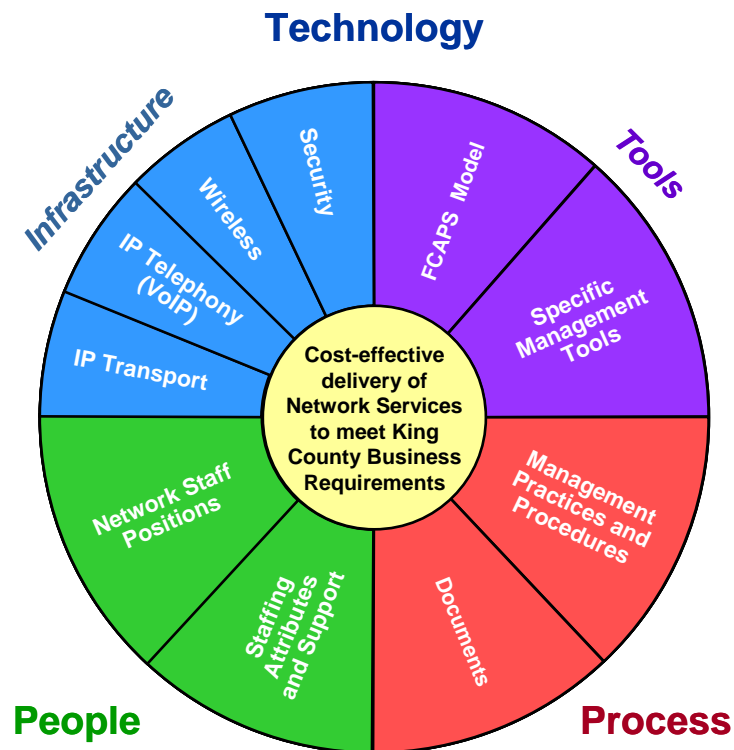
Briefing Objective

- Update on Approach, Strategy and Roadmap for county's Communications Infrastructure Transformation
- SAC Involvement and Action

What is Communication Infrastructure?

- Communication includes:
 - ❑ Voice, data, video and 800MHz radio
- Supporting Infrastructure includes the associated transport networks:
 - ❑ Telephone network
 - ❑ Computer network
 - ❑ Wireless network
 - ❑ 800MHz radio transport network

Framework & Six Strategies



Source: King County Network Strategic Plan, June 2006

1. Risk Mitigation Strategy

Manage the identified risks to the continued delivery of network services.

2. Cost Reduction Strategy

Pursue opportunities to reduce the cost of delivering network services.

3. Wireless Network Communication Strategy

Leverage wireless technology to provide untethered access to critical information as needed in order to improve the delivery of county services to the community.

4. Voice and Data Convergence Strategy

Implement IP Telephony to reduce cost and lay the groundwork for integrated voice communication.

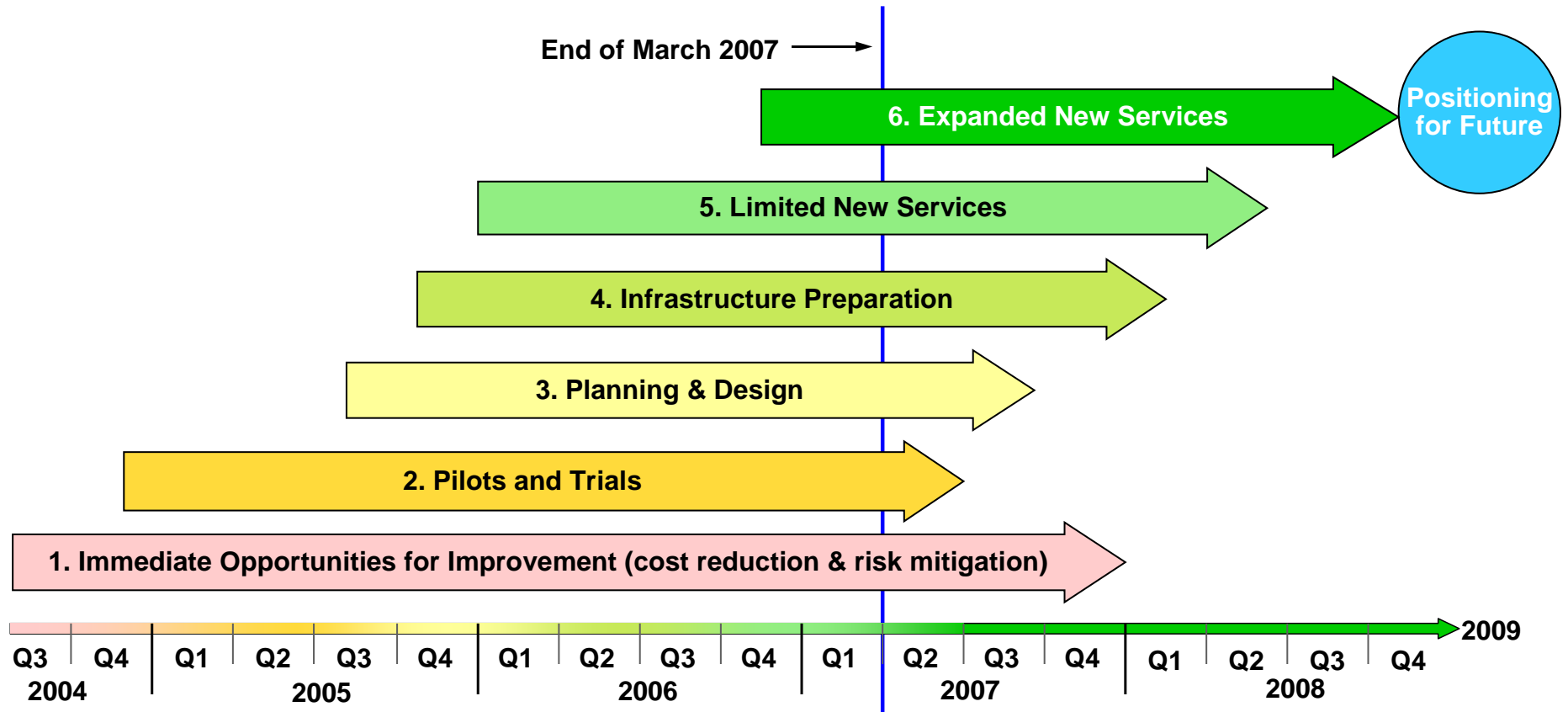
5. Network Standards Development Strategy

Establish countywide policies and standards as a cornerstone to network improvement.

6. Network Infrastructure Upgrade Strategy

Upgrade the network infrastructure to provide the enhanced capabilities needed for the support of the planned and anticipated delivery of new services to the community.

Roadmap to Desired End State



Topics for Discussion

- Wireless Networking
- Voice Over IP (VOIP)
- Regional Emergency Radio Communications
- Interoperable Voice Communications for Business Continuity
- Radio Communication Interoperability
- Regional Video Communication Network

King County Wireless Network

Leverage wireless technology to provide untethered access to critical information as needed in order to improve the delivery of county services to the community.

■ Public Safety

- ❑ Enable Law Enforcement officers on patrol to check criminal records, download mug shots and fingerprints

■ Public Service

- ❑ Provide free or affordable Internet connectivity that may not otherwise be available to citizens of our community.
- ❑ “Virtual Office” connectivity for the workforce using wireless enabled devices

■ County Operations

- ❑ Provide the mobile workforce with real-time access to pertinent information and online forms when away from their office
- ❑ Cost effective internal network connectivity
- ❑ Improved customer services through availability of information where needed

Voice Over Internet Protocol

Implement IP Telephony to reduce cost and lay the groundwork for integrated voice communication.

- One Infrastructure for both Data and Voice Networks – “Converged”
- Deployment
 - ❑ June in the New County Office Bldg
 - ❑ Future - Phased Deployment
- Benefits
 - ❑ Reduced Network Maintenance Costs
 - ❑ Reduced Move/Add/Change Costs

Regional Emergency Radio Communication System

- Primary Purpose: Support for first responders
- Exceptionally High Reliability Standards
- Supports ~16,000 Subscriber Units
- Shared Maintenance Responsibilities within Region

Interoperable Voice Communications for Business Continuity

- Leverages existing infrastructure
- Technology to tie together normally incompatible equipment/systems/networks
- Allows key personnel to maintain command and control during emergencies

Radio Communications Interoperability

- National efforts to develop “P-25” Standard
- State Legislation
- Department of Homeland Security working to develop an Interoperability pilot project for implementation in the near future

Regional Video Communication Network (RVCN)

- Allows public officials to coordinate regionally
- Improves command and control efforts and enhances public safety

SAC Involvement and Action

Communications Infrastructure Transformation

- The strategy direction has been approved in Strategic Technology Plan.
- CIO will be contacting the external members for their expert advice on policies & standards and how to achieve the desired end-state.

Strategies
Risk Mitigation
Cost Reduction
Wireless Network Communication
Voice and Data Convergence
Network Standards Development
Network Infrastructure Upgrade
Emergency / Alternate Communications

Roadmap to end-state
Immediate Critical Improvements
Pilot and Trials
Planning and Design
Infrastructure Preparation
Limited New Services
Expanded New Services

Discussion

- Participants' comments and advice